

CLAIMS

1. Connector for fluids with automatic locking for connecting the Luer cones of two pieces of equipment for medical use, constituted of a tubular male socket (1) having an adaptation tip (1a) at one end-piece and a tip 5 to be fitted (1b) of external conical shape, and a tubular female socket having an adaptation tip (4a) at one end-piece and a reception tip (4b) of internal conical shape able to receive said fitting tip of the male connection with lateral seal, and the connector 10 comprising a locking collar (7) to be mounted on the two sockets, characterised in that said collar has lateral ports (8) able to be crossed by external lateral lugs (3) of the male socket for blocking the collar axially and in rotation on the male socket, and that said collar has a 15 transversally deformable part (7c) equipped with internal notches (10), shaped so that the external notches (6) of the collar can pass over the notches of the female socket when the collar is pushed in a direction towards the socket and be held by the notches of the female socket 20 when there is traction in the reverse direction, and the notches of the collar and of the female socket being shaped so as to allow relative rotation of the female socket and the collar, said notches of the collar being able to be separated laterally from the notches of the 25 female socket by transversal deformation of the part of the collar carrying the notches.

2. Connector according to claim 1 wherein said collar comprises two sets of notches (10) diametrically opposite each other and two zones (11) at 90° relative to 30 the notches able to be pushed radially to deform the

collar transversally in order to separate the two series of notches from each other in order to allow separation of the collar and the female socket from the connector.

3. Connector according to either one of claims 1 and
5 2 wherein the notches (6, 10) of the collar and the female socket have a slight inclination (6a, 10a) to facilitate and automate the locking by axial thrust and a steep slope (6b, 10b) to prevent unlocking, the locking being ensured by the contact between the steep
10 inclinations of the notches of the collar on the steep inclinations of the notches of the female socket.

4. Connector according to any one of claims 1 to 3 wherein the notches (6) of the female socket are grooves or portions of circular grooves.

15 5. Connector according to any one of claims 1 to 4 wherein the male socket (1) has its adaptation tip (1a) designed to receive a male Luer (LM) by fitting.

6. Connector according to any one of claims 1 to 4 wherein the female socket (4) has its adaptation tip (4a)
20 designed internally with a male Luer (LM) able to be fit into a female Luer (LF).

7. Connector according to any one of claims 1 to 4 wherein one and/or the other of the adaptation tips are designed to be connected to a cylindrical tube.

25 8. Application of a connector according to any one of claims 1 to 7 for connection of a syringe or a needle or catheter hub.

9. Application of a connector according to any one of claims 1 to 7 for connection of a tube.

30 10. Medical equipment having a connection tip constituted by the male or female socket of a connector such as defined in any one of claims 1 to 7.